

# 16-channel satellite SAT-IP receiver

PROFESSIONAL SATELLITE L-BAND SIGNALS RECEIVER  
is used to receive, demodulate and decode high-speed digital signals  
within DVB-S/DVB-S2 standards.

- 16 independent demodulators
- low power demand: 30 W
- symbol rate: 1-67 MSps
- supports VCM/ACM
- supports Generic Stream in DVB-S2
- MODCOD DVB-S2 filter

## TECHNICAL DATA

### 4 satellite F-type RF inputs, 75 ohm

|                    |                            |
|--------------------|----------------------------|
| demodulators       | 4 independent per RF input |
| frequency range    | 950-2150 MHz               |
| symbol rate        | 1-67 MSps                  |
| input signal level | between -70 and -20 dBm    |
| spectrum analyzer  | per RF input               |

### transport stream processing

|   |                      |
|---|----------------------|
| controlled and criteria-based filtering | PID<br>MODCOD DVB-S2 |
| removing                                | NULL packages        |
| monitoring and controlling              | via WEB-interface    |

### DVB-S2 standard compliance

|          |   |
|----------|---|
| supports | VCM/ACM, Generic Stream                                   |
| inputs   | Short Frames, Normal Frames<br>FEC BCH + LDPC             |
| QPSK     | 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4,<br>4/5, 5/6, 8/9, 9/10 |
| 8PSK     | 3/5, 2/3, 3/4, 5/6, 8/9, 9/10                             |
| 16APSK   | 2/3, 3/4, 4/5, 5/6, 8/9, 9/10                             |
| 32APSK   | 3/4, 4/5, 5/6, 8/9, 9/10                                  |

### DVB-S standard compliance

|                            |                         |
|----------------------------|-------------------------|
| FEC Reed Solomon + Viterbi |                         |
| QPSK                       | 1/2, 2/3, 3/4, 5/6, 7/8 |
| 8PSK                       | 2/3, 5/6                |



## PHYSICAL DATA

### egress interface

|            |                 |
|------------|-----------------|
| connectors | 4 x SFP+        |
| output     | 1G/10G Ethernet |
| protocol   | UDP/IP          |

### size, power & environment

|                       |  |
|-----------------------|--|
| size                  | 44 x 170 x 250 mm                        |
| operating temperature | 0°C to +50°C                             |
| feed voltage          | AC: 90-264 V (50/60 Hz)<br>DC: 127-300 V |
| average power         | 30 W                                     |

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## SATELLITE TELEVISION OF TOMORROW

The key element of technology is a SAT-IP protocol implementing DVB to IP conversion.

**SAT-IP** is the first and only technology in the marketplace providing a multi-screen solution for satellite TV:

*the digital TV-signal is transmitted via server into a home network and further via wireless LAN or Wi-Fi – to various gadgets: TV, laptop, tablet, smartphone.*

**SAT-IP** provides the highest quality of streaming TV-signal for all video standards: SD, HD, 4K, Ultra-HD.

**SAT-IP** supports various mechanisms of video content delivery – through cable, terrestrial and operated IPTV networks.

**SAT-IP** enables the user to ask a receiver for specific services to receive television broadcast.

**SAT-IP** delivers programs both in coded and uncoded form.

**SAT-IP** makes it possible to use service anywhere on the globe with satellite TV penetration; enables clients to receive broadcast-quality TV-signal and high-speed Internet connection in the remote rural areas with rugged topography.

## BENEFITS

SAT-IP forwards live satellite programs over IP networks, in their highest quality and in the most cost efficient way

|              |   |
|--------------|---|
| SIMPLIFIES   | multi-user network installation: one cable provides services to unlimited number of subscribers and devices |
| DOESN'T NEED | full upgrade of your home network   |
| ALLOWS       | the use of already available satellite antennas   |
| PROVIDES     | centralization of service and upgrading   |
| MAINTAINS    | exterior of the building – no satellite dishes on apartment buildings                                       |
| CUTS COSTS   | for live streaming of TV programmes   |
| ENABLES      | network to perform all IP-based function: satellite TV, Internet, VoIP, etc.                                |
| ENSURES      | independence from cable TV providers  |

- community antenna systems
- social institutions: educational, hospitals...
- corporate TV
- hotels and chains, recreation and retreat centers, guest-houses...
- apartment blocks
- villa communities and cottage estates

## USE CASES

One device provides a multiple subscriber service:

